AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A computer color-matching apparatus for paints comprising:

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(A) a colorimeter, (B) a micro-brilliance-feeling measuring device, and (C) a computer in which a plurality of paint blends, color data and micro-brilliance-feeling data corresponding to each of the paint blends, and color characteristic data and micro-brilliance-feeling data of a plurality of full-color paints are entered, and <u>in which</u> a color-matching calculation logic using the paint blends and the data operates.

wherein the micro-brilliance-feeling measuring device comprises:

a light irradiation device operable to irradiate light to a paint film surface;

a CCD camera operable to photograph the light-irradiated paint film surface; and

an image analyzer operable to analyze an image photographed by the CCD

camera,

wherein the image photographed by the CCD camera is a two-dimensional image which is divided into a plurality partitions.

wherein the micro-brilliance-feeling measuring device measures a brightness of each of the plurality of partitions.

wherein the brightness is a digital gradation showing a shading value of the two-dimensional image photographed by the CCD camera for each partition.

wherein the image analyzer separately and quantitatively evaluates a glitter feeling and a particle feeling of the two-dimensional image photographed by the CCD camera.

wherein the glitter feeling is a perception of an irregular minute brilliance produced by light regularly reflected from a brilliant pigment in the paint film, and

wherein a particle feeling is an irregular non-oriented pattern caused by an orientation or an overlap of a brilliant pigment in the paint film containing a brilliant material when observing a sample under a lighting condition in which a brilliance feeling does not easily occur.

- 2. (Previously Presented) The computer color-matching apparatus according to claim 1, wherein color numbers corresponding to the plurality of paint blends entered in the computer (C) are entered in the computer.
- 3. (Previously Presented) The computer color-matching apparatus according to claim 1, wherein the colorimeter (A) is a multiangle colorimeter.
- 4. (Currently Amended) A computer color-matching method for brilliant paints for which comprises executing the following steps (1) to (3): by using a computer color-matching apparatus comprising (A) a colorimeter, (B) a microbrilliance-feeling measuring device, and (C) a computer in which a plurality of paint blends, color data and micro-brilliance-feeling data corresponding to each of the paint blends, and color characteristic data and micro-brilliance-feeling characteristic data of a plurality of full-color paints are entered, and a color-matching-calculation logic using the paint blends and the data operates to execute:

(1) measuring a paint film of a reference color to which a color of a paint should be adjusted through color-matching by the <u>a</u> colorimeter to obtain color data of the reference color;

- (2) measuring the paint film of the reference color to which the color of the paint should be adjusted through color-matching by the <u>a</u> micro-brilliance-feeling measuring device to obtain microbrilliance-feeling data of the reference color; and
- (3) comparing the color data and the micro-brilliance-feeling data of the reference color with color data and micro-brilliance-feeling data corresponding to paint blends previously entered in the <u>a</u> computer, indexing the degree of matching of the color and micro-brilliance feeling of the entered paint blends, and selecting a prospective paint blend.

wherein the method is performed by using a computer color-matching apparatus

comprising: (A) the colorimeter, (B) the micro-brilliance-feeling measuring device, and (C) the

computer in which a plurality of paint blends, color data and micro-brilliance-feeling data

corresponding to each of the paint blends, and color characteristic data and

micro-brilliance-feeling characteristic data of a plurality of full-color paints are entered, and in

which a color-matching calculation logic using the paint blends and the data operates,

wherein the micro-brilliance-feeling measuring device comprises:

a light irradiation device operable to irradiate light to a paint film surface;

a CCD camera operable to photograph the light-irradiated paint film surface; and

an image analyzer operable to analyze an image photographed by the CCD

camera,

wherein the micro-brilliance-feeling device obtains a two-dimensional image of the paint film surface by the CCD camera, divides the two-dimensional image into a plurality of partitions, and measures a brightness of each of the plurality of partitions,

wherein the brightness is a digital gradation showing a shading value of the two-dimensional image photographed by the CCD camera for each partition,

wherein the image analyzer separately and quantitatively evaluates a glitter feeling and a particle feeling of the two-dimensional image photographed by the CCD camera.

wherein the glitter feeling is a perception of an irregular minute brilliance produced by light regularly reflected from a brilliant pigment in the paint film, and

wherein the particle feeling is an irregular non-oriented pattern caused by an orientation or an overlap of a brilliant pigment in the paint film containing a brilliant material when observing a sample under a lighting condition in which a brilliance feeling does not easily occur.

5. (Previously Presented) The computer color-matching method according to claim 4, further executing (4) correcting a selected paint blend by a color-matching-calculation logic after the step (3) to obtain a corrected blend closer to a reference color.

6. (Canceled)

7. (Currently Amended) A computer color-matching method of for executing the following steps (1) to (3): by using a computer color-matching apparatus constituted of

comprising (A) a colorimeter, (B) a micro-brilliance-feeling measuring device, and (C) a computer in which a plurality of color numbers, paint blends corresponding to the color numbers, color data and micro-brilliance-feeling data corresponding to each of the paint blends, and color characteristic data and micro-brilliance-feeling data of a plurality of full-color paints, and color-matching-calculation logic using the paint blends and the data operates to execute:

- (1) measuring a paint film of a reference color to which a paint color should be adjusted through color-matching by the <u>a</u> colorimeter to obtain the color data of the reference color;
- (2) measuring the paint film of the reference color to which the paint color should be adjusted through color-matching by the <u>a</u> micro-brilliance-feeling measuring device to obtain the micro-brilliance-feeling data of the reference color; and
- (3) selecting color data and micro-brilliance feeling data of at least one paint blend having the same color number as a preset color number of the reference color, <u>and</u> comparing the color data and the micro-brilliance-feeling data of the selected paint blend with the color data and the micro-brilliance-feeling data of the reference color, indexing the degree of matching of the color and micro-brilliance feeling of the selected paint blend, and selecting a prospective paint blend,

wherein the method is performed by using a computer color-matching apparatus

comprising: (A) the colorimeter, (B) the micro-brilliance-feeling measuring device, and (C) a

computer in which a plurality of color numbers, paint blends corresponding to the color numbers,

color data and micro-brilliance-feeling data corresponding to each of the paint blends, and color

characteristic data and micro-brilliance-feeling characteristic data of a plurality of full-color

paints are entered, and in which a color-matching calculation logic using the paint blends and the data operates,

wherein the micro-brilliance-feeling measuring device comprises:

a light irradiation device operable to irradiate light to a paint film surface;

a CCD camera operable to photograph the light-irradiated paint film surface; and

an image analyzer operable to analyze an image photographed by the CCD

camera,

wherein the micro-brilliance-feeling measuring device obtains a two-dimensional image of the paint surface by the CCD camera, divides the two-dimensional image into a plurality of partitions, and measures a brightness of each of the plurality of partitions,

wherein the brightness is a digital gradation showing a shading value of the

two-dimensional image photographed by the CCD camera for each partition, and

wherein the image analyzer separately and quantitatively evaluates a glitter feeling and a

particle feeling of the two-dimensional image photographed by the CCD camera,

wherein the glitter feeling is a perception of an irregular minute brilliance produced by light regularly reflected from a brilliant pigment in the paint film, and

wherein the particle feeling is an irregular non-oriented pattern caused by an orientation or an overlap of a brilliant pigment in the paint film containing a brilliant material when observing a sample under a lighting condition in which a brilliance feeling does not easily occur.

8. (Previously Presented) The computer color-matching method according to claim 7, further executing (4) correcting the selected prospective paint blend by a color-matching-calculation logic to obtain a corrected paint blend closer to the reference color.

9. (Canceled)

- 10. (Previously Presented) The computer color-matching apparatus according to claim2, wherein the colorimeter (A) is a multiangle colorimeter.
- 11. (Previously Presented) The computer color-matching method according to claim 5, wherein the prospective paint blend obtained in step (3) or the corrected blend obtained in step (4) is transferred to an electronic balance.
- 12. (Previously Presented) The computer color-matching method according to claim 8, wherein the prospective paint blend obtained in step (3) or the corrected blend obtained in step (4) is transferred to an electronic balance.

13-22. (Canceled)